The French Cyberdefense structure
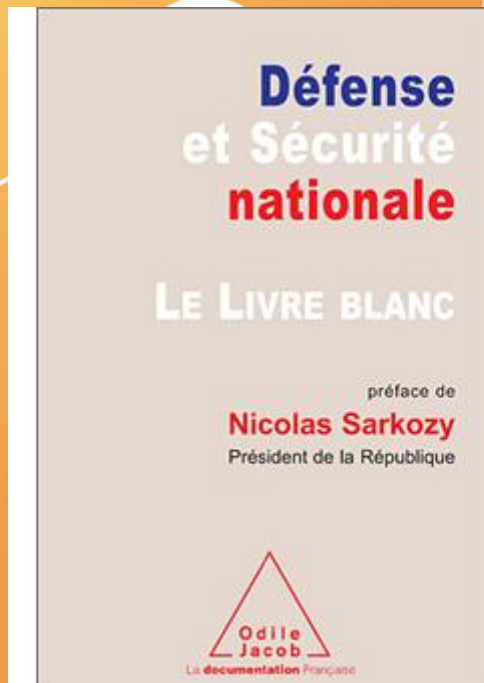## PhD Alix Desforges

5th France - Japan Cybersecurity Workshop

Kyoto 2019

Introduction on French Cyberdefense

- ※ vocabulary

- Major developments in 10 years

- Two main phases of development leading by the comprehension of cyberthreats

The strategic beginning

Défense et Sécurité nationale

LE LIVRE BLANC

préface de
Nicolas Sarkozy
Président de la République

Odile Jacob
La documentation Française

Information System Security identified as a top priority capacity that France must keep a domain of sovereignty alongside with 3 elements of french nuclear deterrence

Phase 1 : 2008-2013

- Two main actors
  - ANSSI (French Cybersecurity Agency)
  - Ministry of Defense

- A technical-military approach

EVOLUTION OF BUDGET OF ANSSI BETWEEN 2009 AND 2017
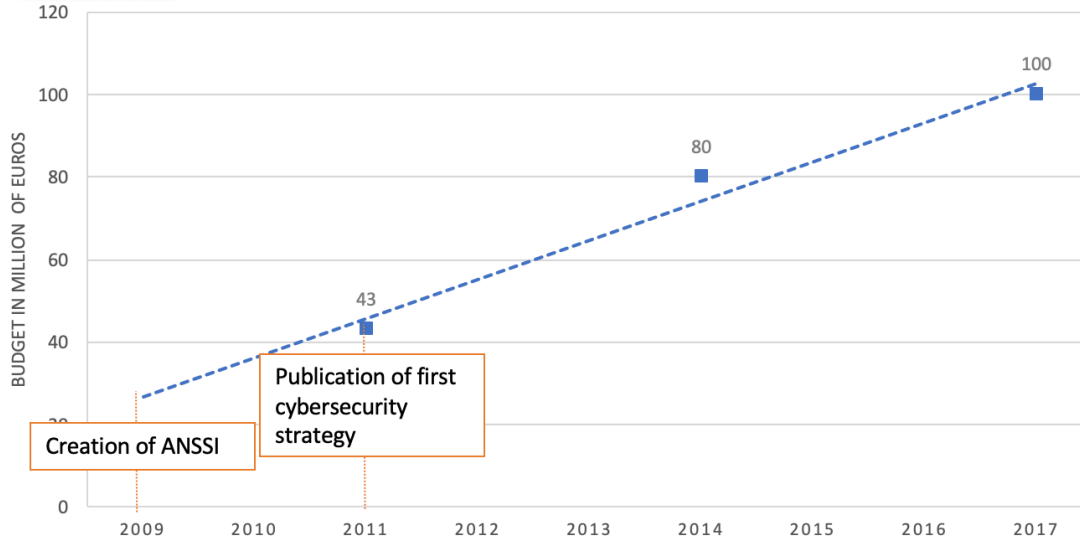
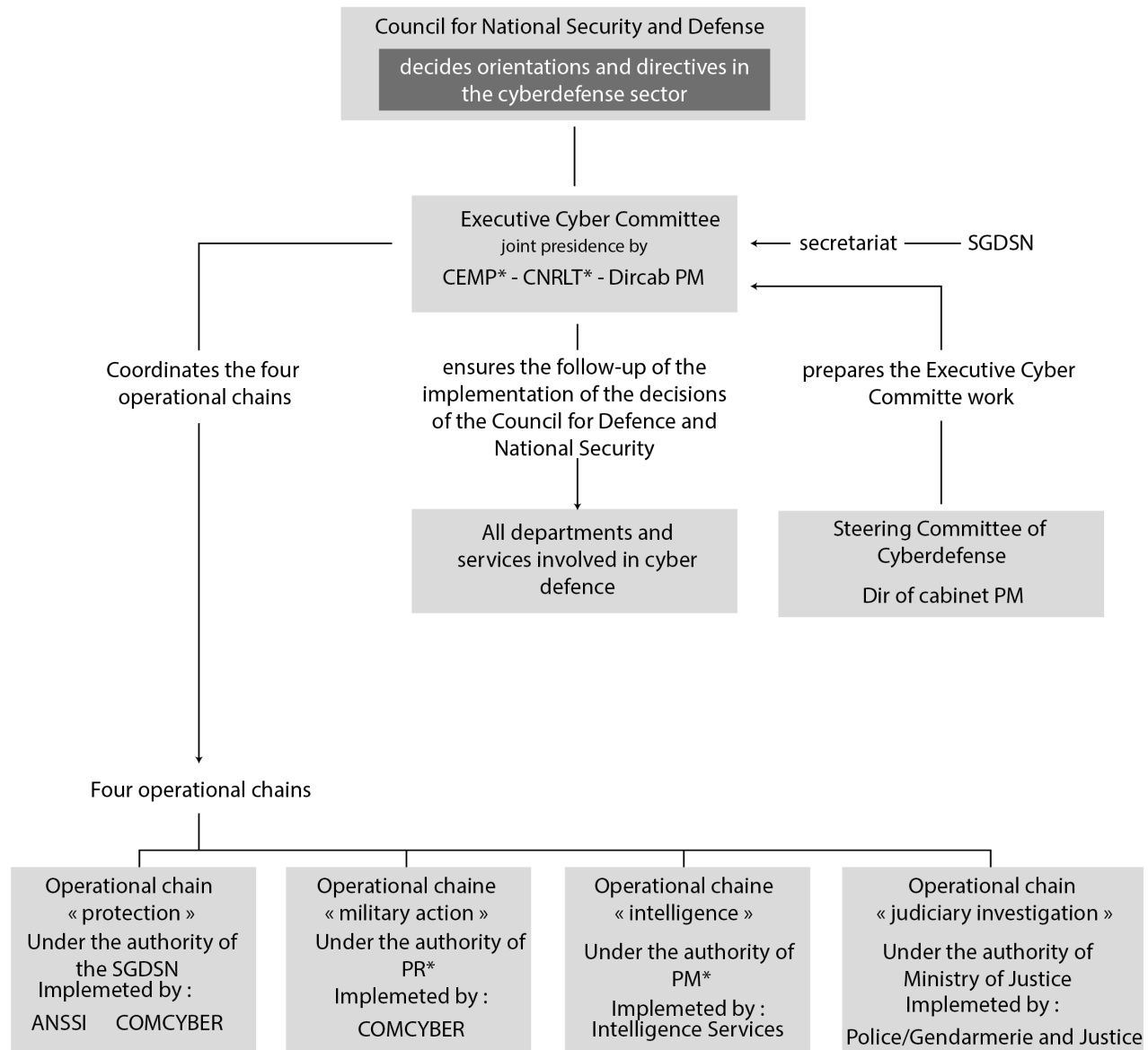## EVOLUTION OF HUMAN RESSOURCES AT ANSSI BETWEEN 2009 AND 2017

A major cyberattack could constitute an act of war

Phase 2 : 2013-now

- Reinforcement of ANSSI and MoD
- Moving to a comprehensive and global approach
  - More actor involved
  - Expanded perimeter

Organization of the French Cyberdefense in 2018

Council for National Security and Defense

decides orientations and directives in the cyberdefense sector

Executive Cyber Committee
joint presidence by
CEMP* - CNRLT* - Dircab PM

secretariat ——— SGDSN

Coordinates the four operational chains

ensures the follow-up of the implementation of the decisions of the Council for Defence and National Security

prepares the Executive Cyber Committe work

All departments and services involved in cyber defence

Steering Committee of Cyberdefense

Dir of cabinet PM

Four operational chains

Operational chain « protection »
Under the authority of the SGDSN
Implemeted by :

ANSSI   COMCYBER

Operational chaine « military action »
Under the authority of PR*
Implemeted by :

COMCYBER

Operational chaine « intelligence »

Under the authority of PM*
Implemeted by :
Intelligence Services

Operational chain « judiciary investigation »

Under the authority of Ministry of Justice
Implemeted by :

Police/Gendarmerie and Justice

*CEMP : chef d'Etat-major particulier du Président de la République
CNRLT : coordinateur national du renseignement et de la lutte contre le terrorisme
PR : Président de la République
PM : Premier ministre

Six Missions of French Cyberdefense

① Prevention

Interministerial cooperation :

ANSSI
Regional delegates for
Business Intelligence
Ministry of Interior
Prefects
Chamber of Commerce
...

② Anticipation

Under the supervision C4 TECHOPS

ANSSI

Intelligence Services

③ Protection

ANSSI
COMCYBER

④ Detection

ANSSI
COMCYBER
Intelligence services

⑤ Attribution

ANSSI
Ministry of Interior
Intelligence services
COMCYBER

⑥ Reaction

Responsible of systems under attack
Support from ANSSI

Investigation :
Ministry of Interior and
Ministry of Justice

Military operation if needed :
Ministry of Defence

To sumarize

- In 10 years : significant evolution of french cyberstrategy reflecting a proactive and ambitious strategy

- French cyberdefense has been developed in two phases. First driven by a technical and military approach, the strategy is now more comprehensive

@geode_science

Lastest publication :

F. Delerue, A. Desforges and A. Géry, *A close look at France's new military cyber strategy*, War on the rocks, april 2019

https://warontherocks.com/2019/04/a-close-look-at-frances-new-military-cyber-strategy/